

**Abstract**

The invention relates to a structure, comprising a substrate supporting a layer with a photocatalytic and anti-soiling property on at least part of the surface thereof, said layer being based on titanium dioxide ( $TiO_2$ ) which is at least partially crystallized in the anatase form thereof. Said structure is characterised in comprising a sublayer (SC) directly under at least one  $TiO_2$  layer, said sublayer having a crystallographic structure which provides assistance to crystallization by heteroepitaxial growth in the anatase form of the  $TiO_2$ -based upper layer, the photocatalytic property being obtained without any heating step.